

Supplemental Material to:

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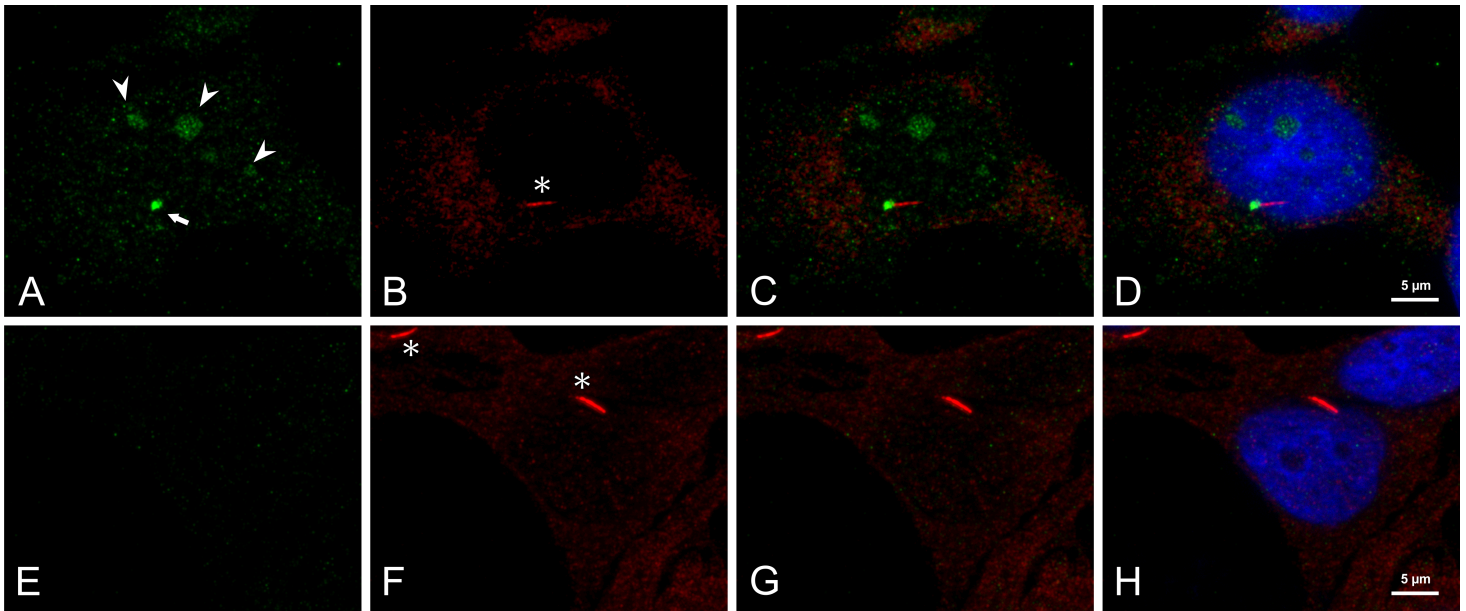
Pericentrin in health and disease

Exploring the patchwork of Pericentrin splice variants

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Pericentrin distribution in ciliated human embryonic kidney cells and MmPeriC1 control experiments

(A-D) Triple labeling of Pcnt (green, A), polyglutamylated tubulin GT335 (marker for primary cilia, red, B), and DAPI (blue, D) in ciliated human embryonic kidney cells (HEK-293T cells). Pcnt is localized at the basal body complex of primary cilia (arrow; the primary cilia are marked with an asterisk). Moreover it accumulates in the nucleoli of interphase cells (arrowheads) and can be found distributed throughout the cytoplasm at granular appearing structures. (C) Merge of the Pcnt and polyglutamylated tubulin GT335 staining. (D) Merge of the Pcnt, polyglutamylated tubulin GT335 and DAPI staining. (E-H) Control triple labeling with preadsorbed MmPeriC1 antibody (green, E), polyglutamylated tubulin GT335 (red, F), and DAPI (blue, H) in ciliated human embryonic kidney cells (HEK-293T cells). Preadsorption of the MmPeriC1 antibody with the respective antigen in saturating concentrations results in the absence of Pcnt staining. (G) Merge of the preadsorbed MmPeriC1 antibody and polyglutamylated tubulin GT335 staining. (H) Merge of the preadsorbed MmPeriC1 antibody, polyglutamylated tubulin GT335 and DAPI staining. Scale bar: 5 μm (D, H).